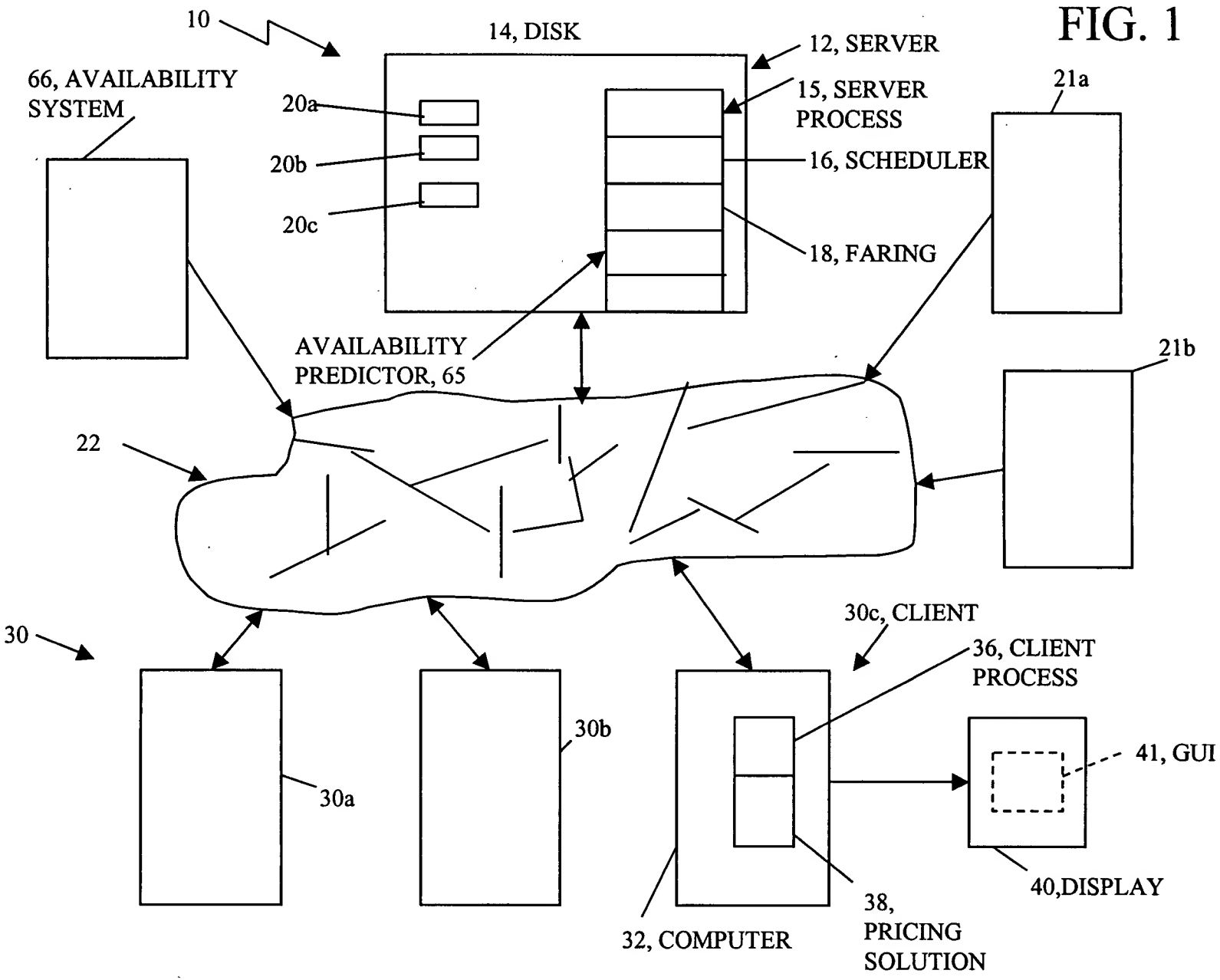
FIG. 1


10
14, DISK
12, SERVER
66, AVAILABILITY SYSTEM
20a
15, SERVER PROCESS
21a
20b
16, SCHEDULER
20c
18, FARING
AVAILABILITY PREDICTOR, 65
21b
22
30
30c, CLIENT
36, CLIENT PROCESS
30b
41, GUI
30a
40,DISPLAY
38, PRICING SOLUTION
32, COMPUTER

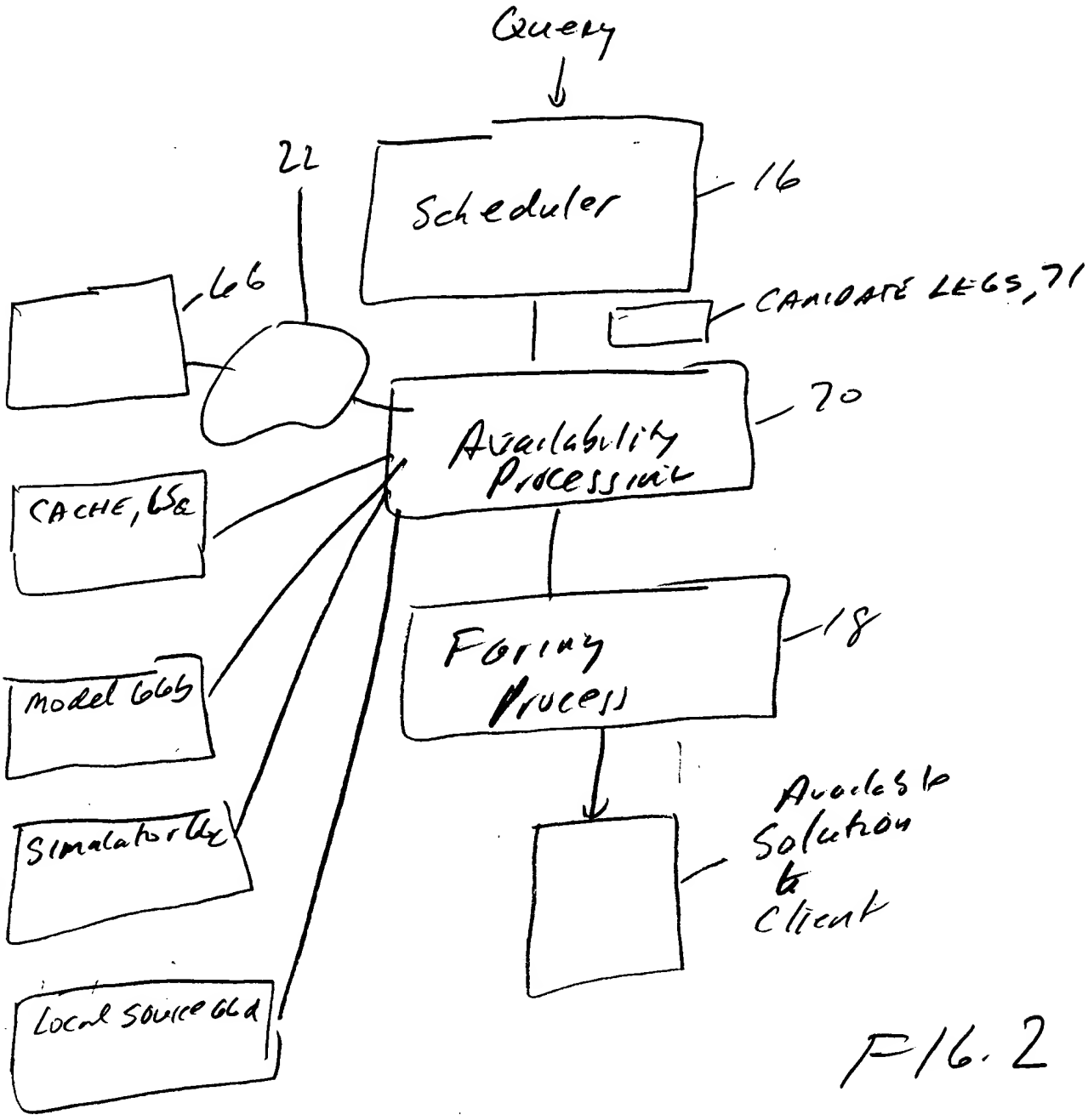

Query
22
Scheduler
16
66
CANDIDATE LEGS, 71
Availability Processing
70
CACHE, DB
Model DB
Simulator DB
Local Source DB
Forming Process
18
Available Solution to Client

FIG. 2

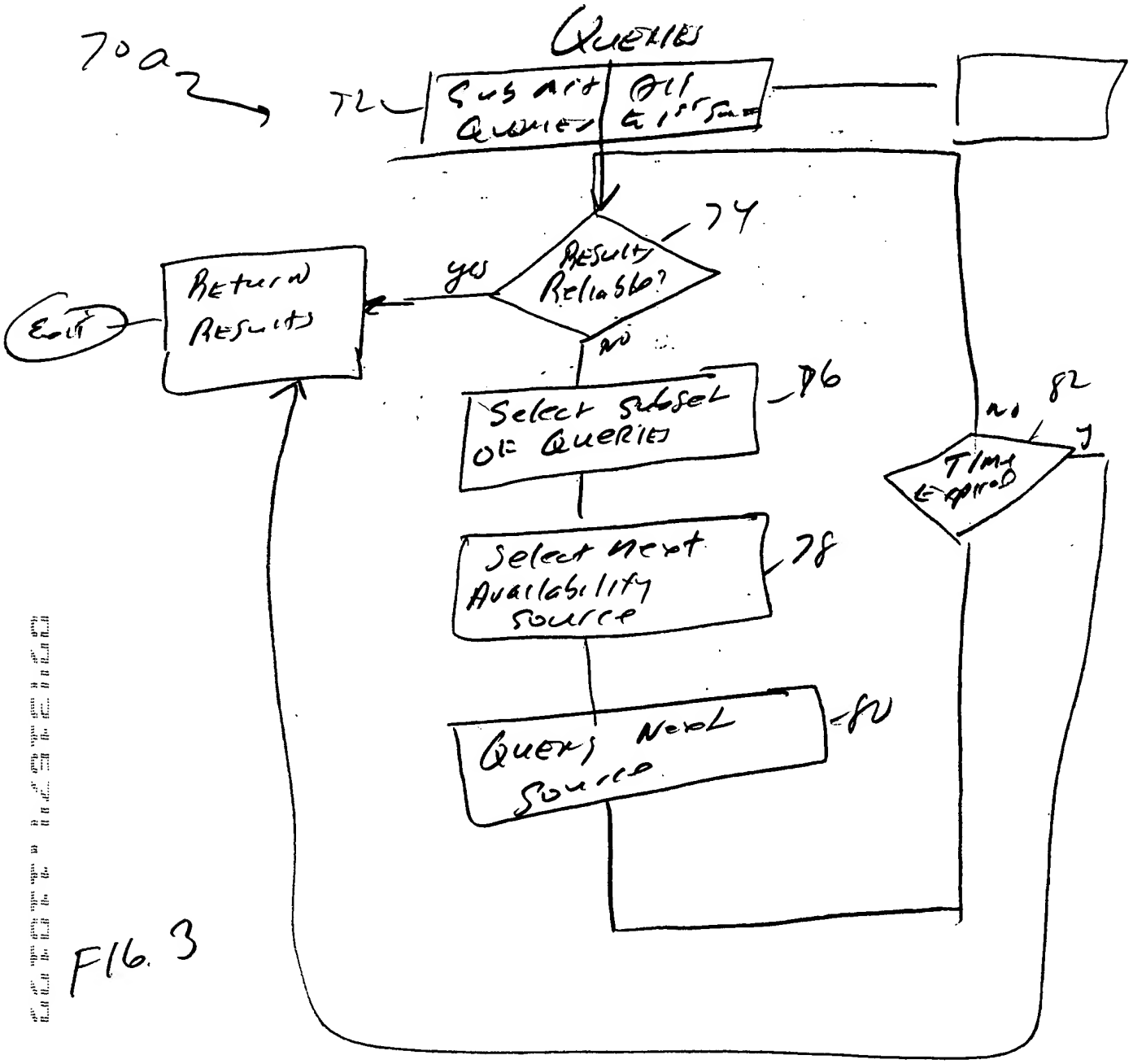

70a
Queries
72
Submit Queries
Get Next
74
Results Reliable?
yes
Return Results
Exit
no
76
Select Subset of Queries
78
Select Next Availability Source
80
Query Next Source
82
no
Time Expired
yes

FIG. 3

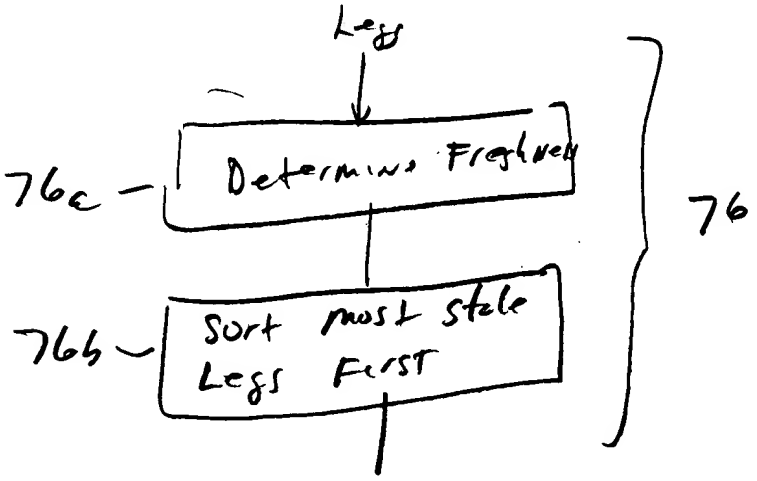

Legs
76a
Determine Freshness
76b
Sort most stale Legs First
76

FIG. 3A

706

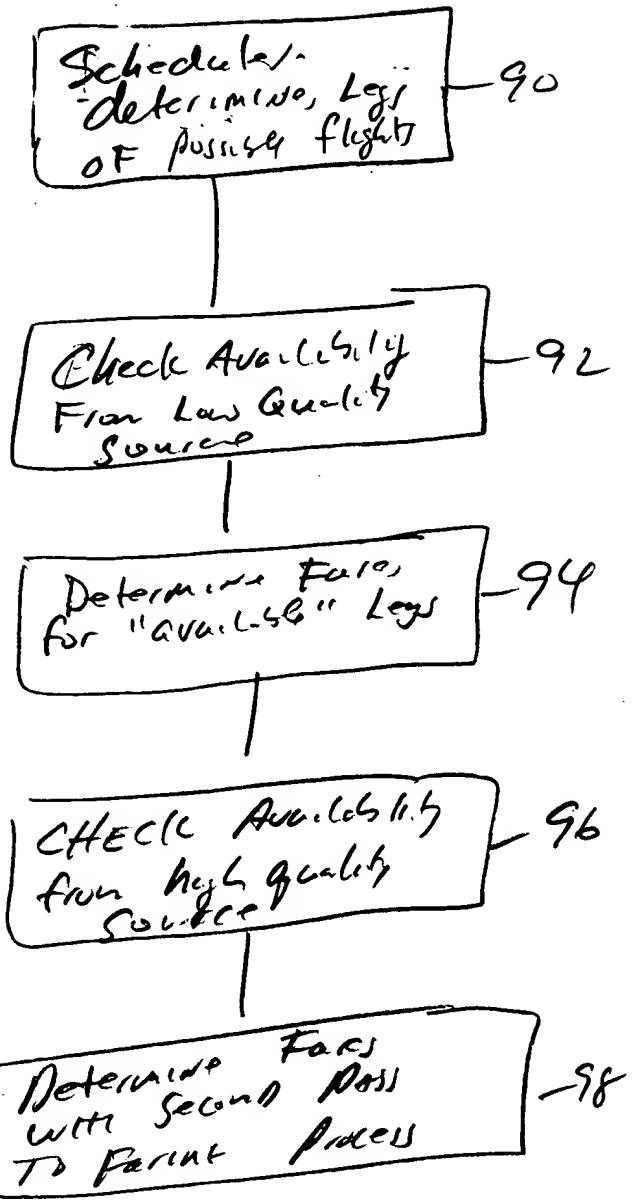

Scheduler determines Legs of possible flights
90
Check Availability From Low Quality Source
92
Determine Fares for "available" Legs
94
CHECK Availability from high quality source
96
Determine Fares with second Pass To Fare Price
98

FIG. 4

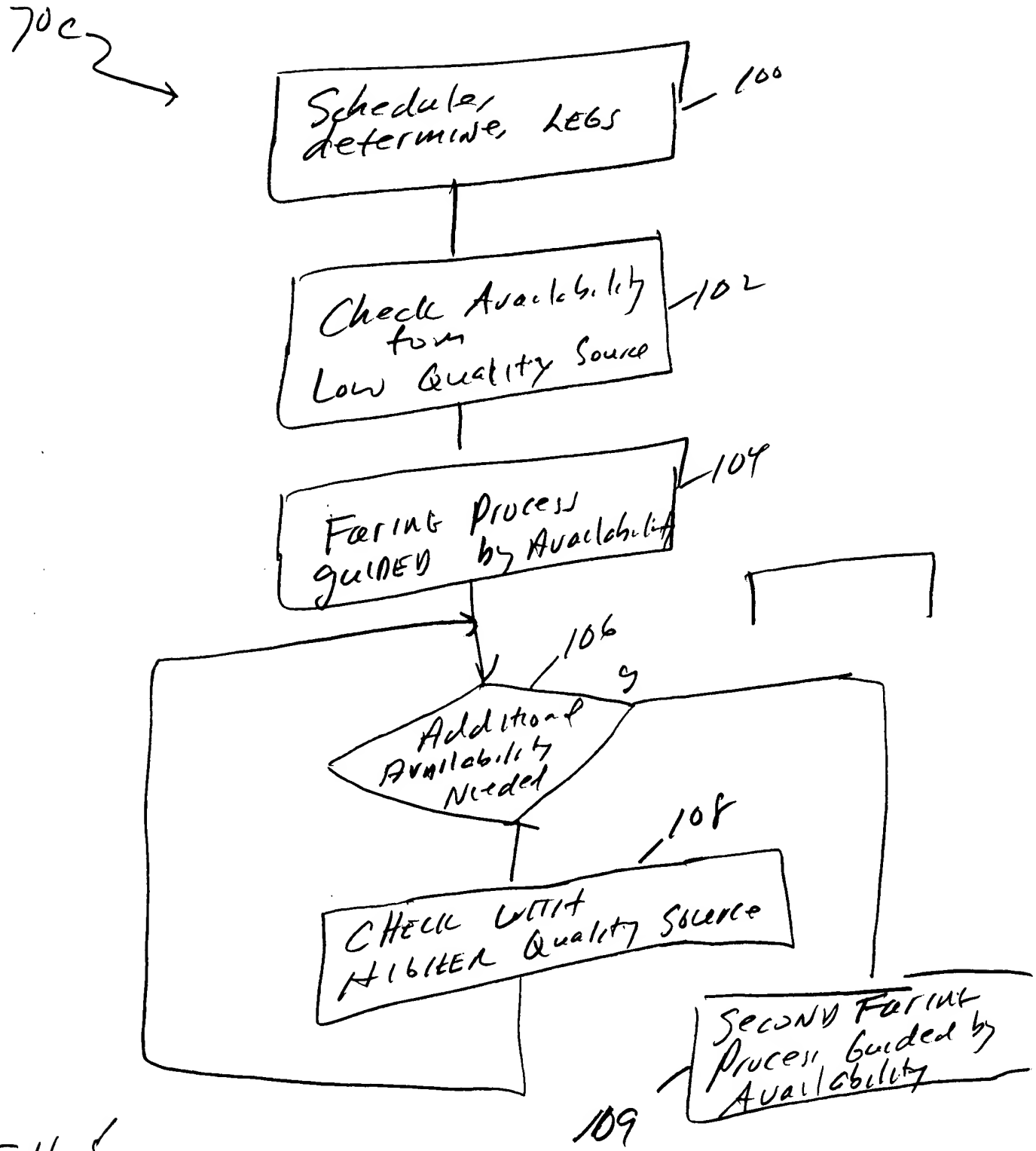

70c
Schedule, determine, LEGS
100
Check Availability from Low Quality Source
102
Forming Process guided by Availability
104
106
Additional Availability Needed
108
CHECK WITH HIGHER Quality Source
Second Forming Process, Guided by Availability
109

FIG. 5

70d

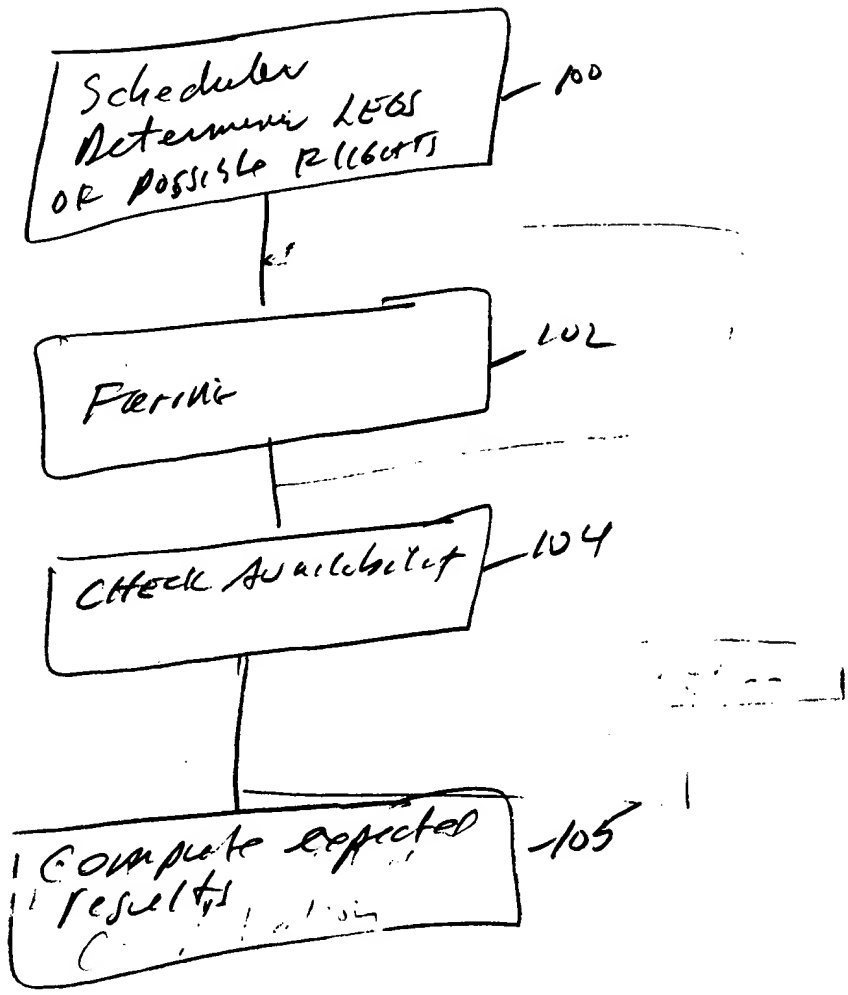

Scheduler Determine LEGS OR POSSIBLE FLIGHTS
100
Ferrific
102
Check Availability
104
Compute expected results
105

FIG. 6

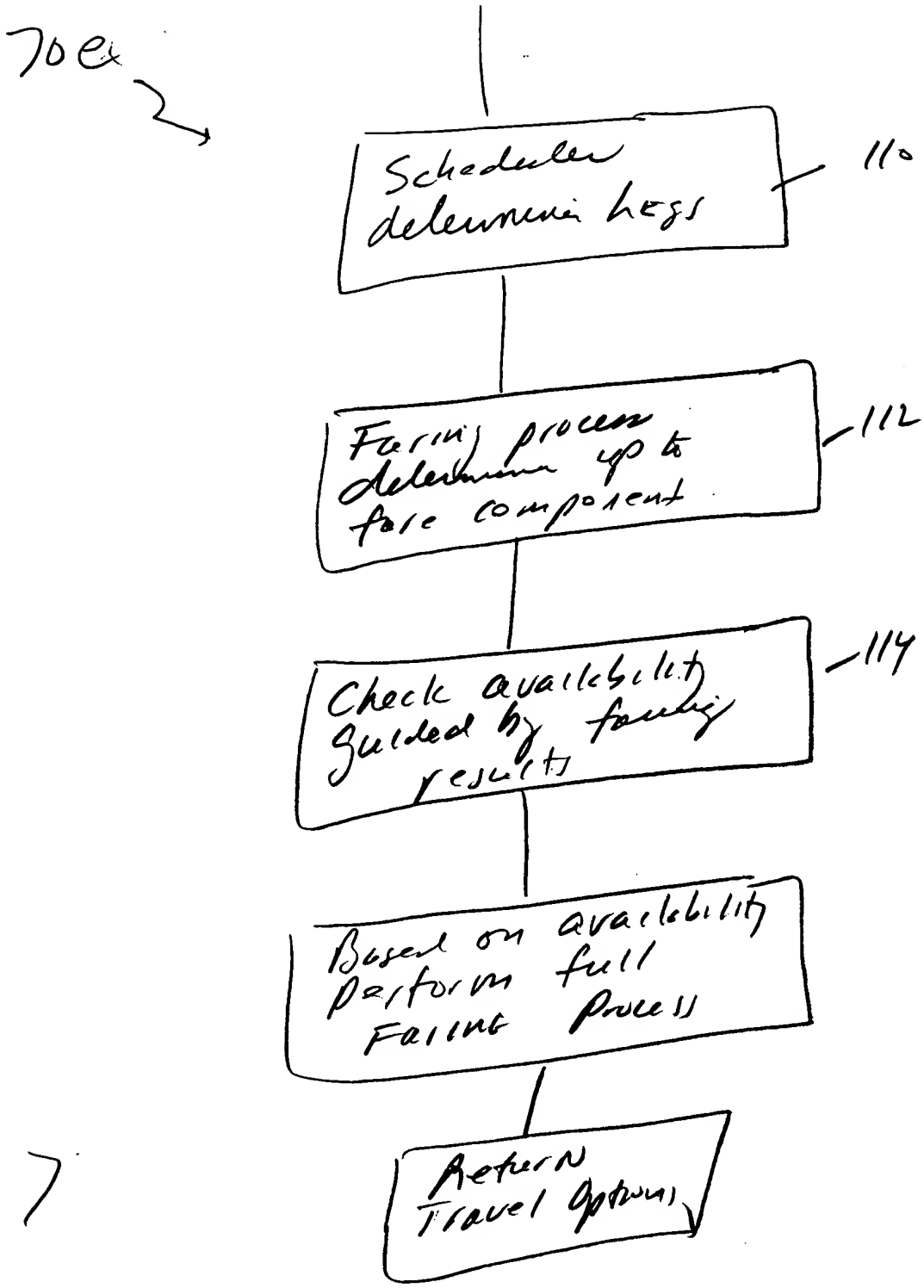

70a
Scheduler determines legs
110
Farin process determines up to fare component
112
Check availability guided by farin results
114
Based on availability perform full Farin Process
Return Travel Options

FIG. 7

7 of 2

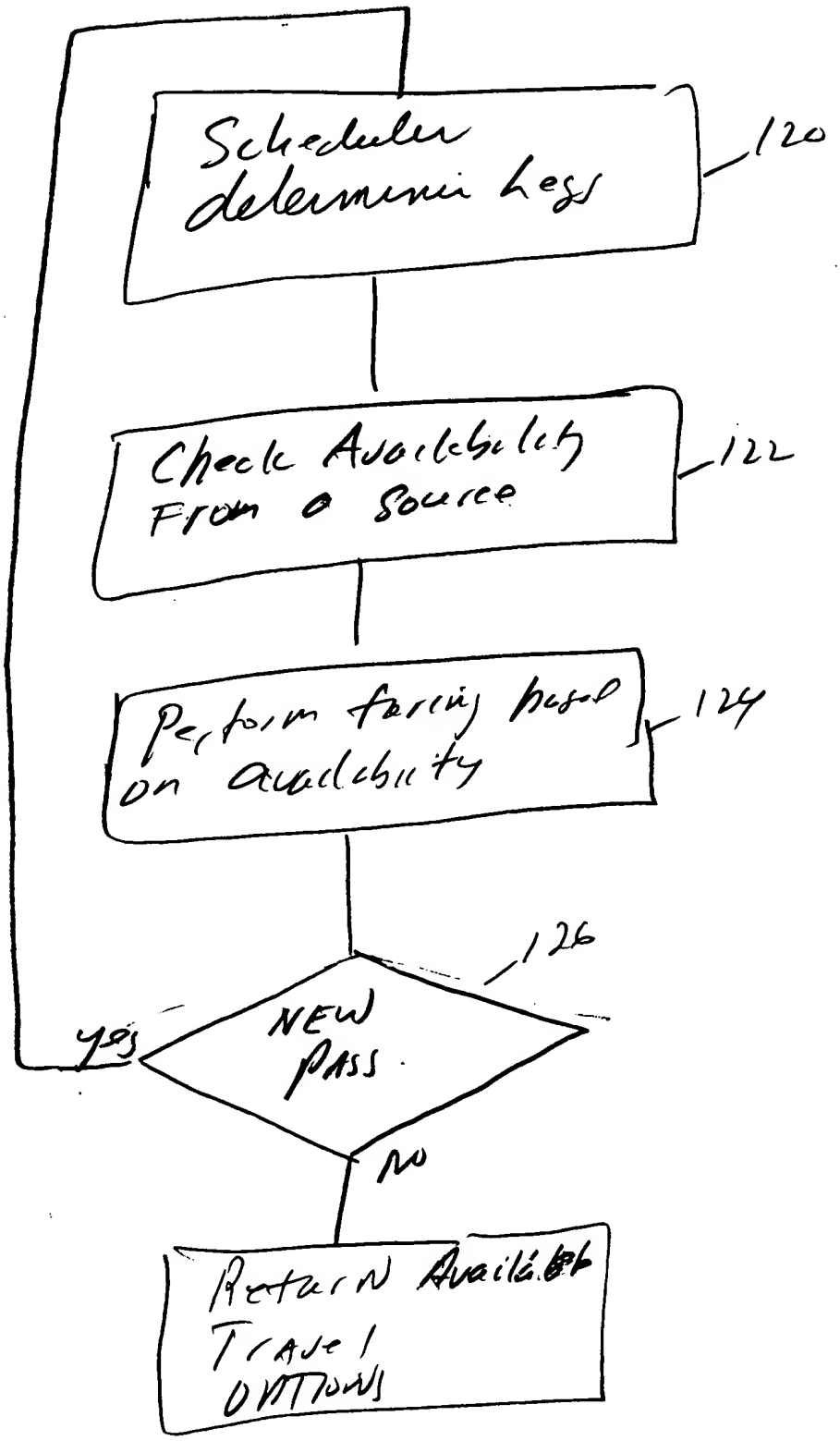

Scheduler determines legs
120
Check Availability From a Source
122
Perform farcing based on availability
124
126
NEW PASS
yes
NO
Return Available Travel Options

FIG. 8

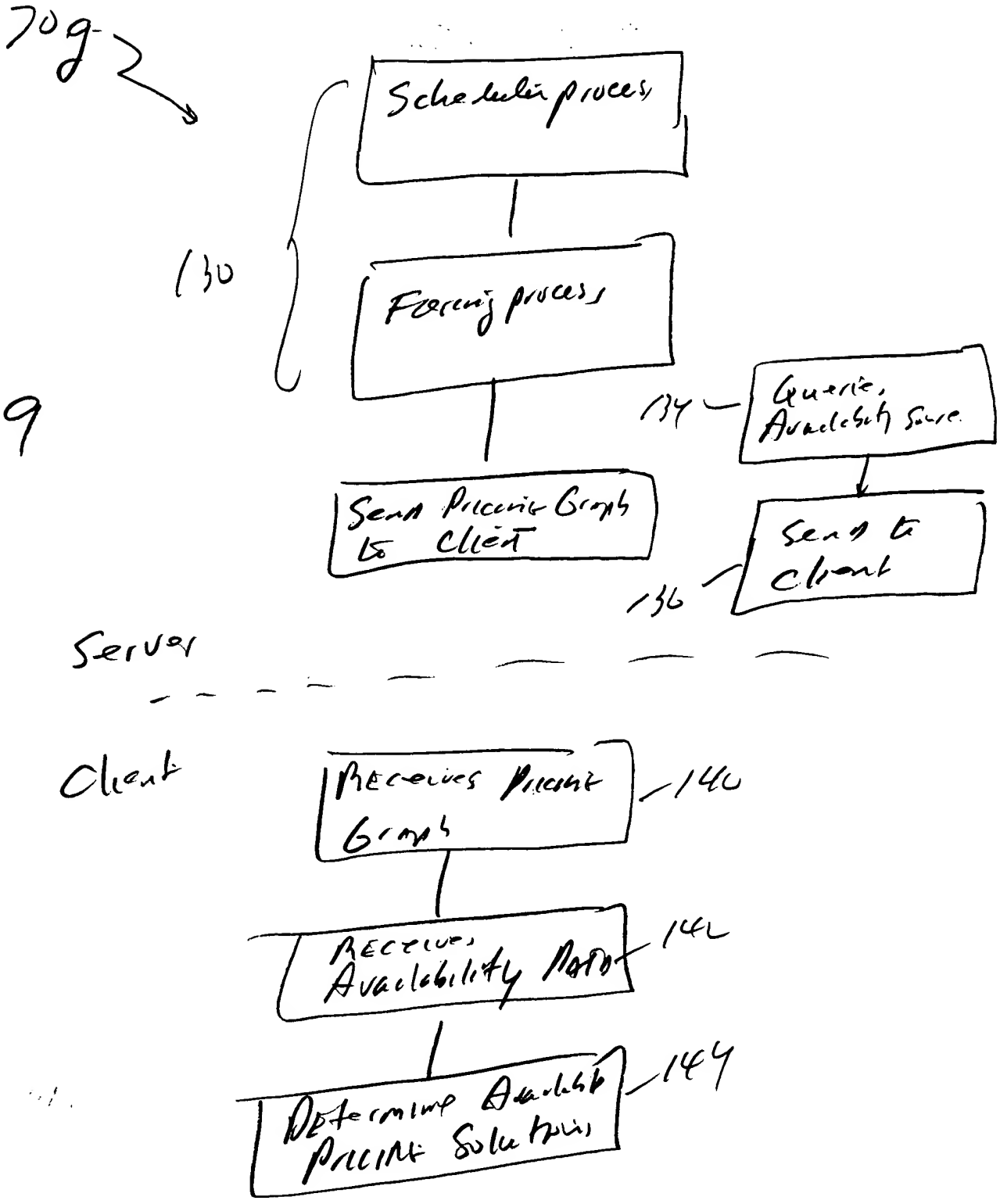

70g
Scheduler process
130
Forcing process
134
Queries Availability Server
Send Pricing Graph to Client
Send to client
136
Server
Client
Receives Pricing Graph
140
Receives Availability Matrix
142
Determine Available Pricing Solutions
144

FIG. 9

70h

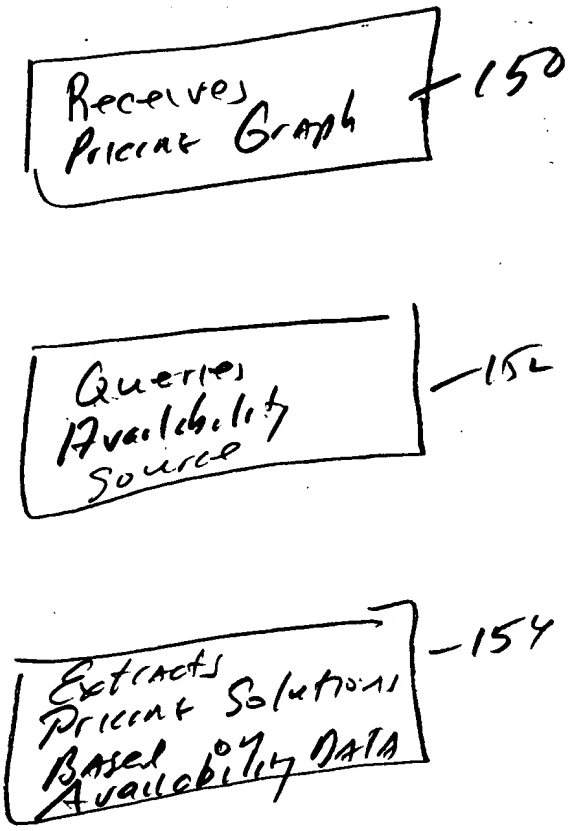

Receives Pricing Graph
150
Queries Availability Source
152
Extracts Pricing Solutions Based On Availability Data
154

FIG. 10